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Substitute for form 1449A/PTO

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

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Complete if Known					
Application Number	10/616,659				
Filing Date	July 9, 2003				
First Named Inventor	MARANAS, et al.				
Art Unit	1645				
Examiner Name					
Attorney Docket Number	P06367US03				

	U.S. PATENT DOCUMENTS							
Examiner Initials *	Cite No.1	<u>Document Number</u> Number - Kind Code [®] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear			
KRS	1	US- 2002/0012939 A1	01/31/2002	Palsson				
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KRS	3	WO 02/055995 A2	07/18/2002	Penn State Research, Maranas							
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³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3).

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⁵ Kind of document by the appropriate symbols as indicated. on the document under WIPO Standard ST. 16 if possible.

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SECOND SUPPLEMENTAL

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SEC	COND SUPI	PLEN	IENTAL	Application Number	10/616,659	
INFORMATION DISCLOSURE				Filing Date	July 9, 2003	
	TEMENT BY			First Named Inventor	MARANAS, Costas D.	
				Group Art Unit	1645	
(Use as many sheets as necessary)				Examiner Name		
Sheet	2	of	2	Attorney Docket Number	P06367US03	

	OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS							
Examiner Initials *	Cite No.	trictude name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, sarial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	т:					
KRS		BURGARD, A. P. et al., Minimal Reaction Sets for Escherichia coli Metabolism under Different Growth Requirements and Uptake Environments. Biotechnology Progress., 17(5):791-797 (2001)						
		BURGARD, A.P. et al., Probing the Performance Limits of the Escherichia coli Metabolic Network Subject to Gene Additions or Deletions. Biotechnology and Bioengineering, 74(5):364-375 (2001)						
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KRS	1	US- 2002/0168654 A1	11/14/2002	Maranas et al.					
KRS	2	US- 2003/0073092 A1	04/17/2003	Maranas et al.					
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INFORMATION DISCLOSURE	First Named Inventor	MARANAS, Costas D., et al.			
STATEMENT BY APPLICANT	Group Art Unit				
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best 2 of 3	Attorney Docket Number	P06367US03			

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		OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS	T 2	
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KRS	3	Biebl, H, Menzel, K, Zeng, AP, Deckwer, WD. 1999. "Microbial production of 1,3-propanediol". Appl Environ Microbiol 52: 289-297.		
	4	Burgard, AP, Maranas, CD. 2001. "Probing the performance limits of the Escherichia coli metabolic network subject to gene additions or deletions". Biotechnol Bioeng 74: 364-375.		
	5	Burgard, AP, Maranas, CD. 2003. Optimization-based framework for inferring and testing hypothesized metabolic objective functions. Biotechnol Bioeng 82(6): 670-7.		
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	7	Cameron, DC, Altaras, NE, Hoffman, ML, Shaw, AJ. 1998. "Metabolic engineering of propanediol pathways." Biotechnol Prog 14(1): 116-25.		
	8	Compagno, C, Boschi, F, Ranzi, BM. 1996. "Glycerol production in a triose phosphate isomerase deficient mutant of Saccharomyces cerevisiae". Biotechnol Prog 12(5): 591-5.		
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	, 11	Gupta, S, Clark, DP. 1989. "Escherichia coli derivatives lacking both alcohol dehydrogenase and phosphotransacetylase grow anaerobically by lactate fermentation." J Bacteriol 171(7): 3650-5.		

Examiner	/Karlheinz Skowronek/ (05/25/2006) Date Considered	05/25/2006
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	KRS	12	Hartlep, M, Hussmann, W, Prayitno, N, Meynial-Salles, I, Zeng, AP. 2002. "Study of two-stage processes for the microbial production of 1,3-propanediol from glucose". Appl Microbiol Biotechnol 60(1-2): 60-6.	
Missing; Not	 	13	Hugler, M, Menendez, C, Schagger, H, Puchs, G. 2002. "Malonyl-coenzyme A reductase	
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	KRS		Ibarra, RU, Edwards, JS, Palsson, BO. 2002. "Escherichia coli K-12 undergoes adaptive evolution to achieve in silico predicted optimal growth". Nature 420(6912): 186-9.	
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16 Segre, D, Vitkup, D, C metabolic networks".		16	Segre, D, Vitkup, D, Church, GM. 2002. "Analysis of optimality in natural and perturbed metabolic networks". Proc Natl Acad Sci U S A 99(23): 15112-7.	
		17	Stols, L, Donnelly, MI. 1997. "Production of succinic acid through overexpression of NAD(+)-dependent malic enzyme in an Escherichia coli mutant". Appl Environ Microbiol 63(7): 2695-701.	
		18	Zeikus, JG, Jain, MK, Elankovan, P. 1999. "Biotechnology of succinate acid production and markets for derived industrial products". Appl Microbiol Biotechnol 51: 545-552. Zeng, AP, Biebl, H. 2002. Bulk chemicals from biotechnology: the case of 1,3-propanediol production and the new trends. Adv Biochem Eng Biotechnol 74: 239-59.	
		19	Zhu, MM, Lawman, PD, Cameron, DC. 2002. "Improving 1,3-propanediol production from glycerol in a metabolically engineered Escherichia coli by reducing accumulation of sn-glycerol-3-phosphate". Biotechnol Prog >18(4): 694-9.	

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